PELCO

Inter **✓** *Check* ®
by **PELCO**

Inter-Check ICI1000S Series

Cash Register Interface System

Installation/Operation Manual

C1000M-B (1/96)

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REVISION HISTORY

Manual #	Date	Comments
C1000M	—	Original version.
C1000M-A	11/95	Revised to incorporate Programming Menu Map, Section 4.0, and Troubleshooting Flow Chart, Section 5.1.
C1000M-B	1/96	Revised to include Appendix B, ICI1000PIM Switch Settings.

INSTALLATION/OPERATION MANUAL
ICI1000S SERIES INTER-CHECK®
CASH REGISTER INTERFACE SYSTEM

1.0 WARNINGS

Prior to installation and use of this product, the following WARNINGS should be observed.

1. Installation and servicing should only be done by qualified service personnel and conform to all local codes.

2. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6 or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.

3. The product and/or manual may bear the following marks:

4. Only use replacement parts recommended by Pelco.

5. After replacement/repair of this unit's electrical components, conduct a resistance measurement between line and exposed parts to verify the exposed parts have not been connected to line circuitry.

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

SA 1965

CAUTION:
TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

SA 1966

CAUTION:
RISK OF ELECTRIC SHOCK.
DO NOT OPEN.

Please thoroughly familiarize yourself with the information in this manual prior to installation and operation.

2.0 SCOPE

The information contained within this manual covers the installation and operation of the Inter-Check® ICI1000S Series cash register interface system.

Installation should be in accordance with all applicable local and national electric codes, utilizing approved materials only.

Please familiarize yourself with the information in this manual prior to installation and operation.

2.1 DESCRIPTION

The Inter-Check terminal monitor, or P.O.S., interfaces with most ATM machines and popular cash registers. It is compatible with most standard CCTV cameras, video tape recorders and monitors. The Inter-Check is the heart of a large family of Pelco products which are designed to reduce losses in any financial institution.

In addition to the high performance and reliability you've come to expect from Pelco products, the Inter-Check ICI1000S Series offers the following MAIN FEATURES:

• Monitors one device, cash register or ATM machine.

• Exception flagging for special alarm flags such as VOID or REFUND.

• Exception flagging on numerical values such as price and the manipulation of these values.

• 30 separate exceptions can be programmed.

• One programmable alarm output for VCR control.

• One programmable alarm input for sensing of any closure.

• Completely programmable data channel.

• Self-diagnostics to check for proper operation.

• Easy on-screen, menu-driven programming.

• Non-volatile memory for program storage (no battery needed).

• Horizontal and vertical fine tune controls.

• Character size, intensity and video gain controls.

• Program transfer function between another Inter-Check ICI1000S Series unit or Personal Computer (PC).

• Program transfer between an Inter-Check ICI1000S Series and a PC requires special software designed by Pelco Systems. If interested in this option, contact a Pelco representative.

• Compact 64 function keypad used to program the Inter-Check ICI1000S Series.

• The Inter-Check ICI1000S Series keypad can be ordered for either external operation or hidden internal operation. Your choice must be specified upon the initial order.

3.0 INSTALLATION

To begin installation, refer to the following instructions and Figures 1 and 2.

3.1 INSTALLING INTERFACE CABLE

1. Install interface cable and PIM (if applicable) into the cash register according to the instructions supplied with your interface cable. Do not power up PIM .

2. Install an 18 gauge, two-conductor shielded cable between the interface cable/PIM and the ICI1000S unit using the ICI1000WK (wiring kit) supplied with your ICI1000S (refer to Figures 2 and 3). This kit contains two RJ14 phone jacks and one straight-through six conductor cable.

> **WARNINGS:** Do not power up the Inter-Check ICI1000S Series unit until all other connections have been made.

Only use the power supply supplied with the Inter-Check ICI1000S Series unit. Other power supplies may damage the unit.

> **NOTE:** Do not mount the Inter-Check ICI1000S Series unit until all connections are made and programming is complete. Video adjustments on the bottom of the Inter-Check ICI1000S Series may need to be accessible during the initial set-up.

3.2 BASIC INSTALLATIONS

For basic installations, perform the following steps:

1. Connect the cable from your video camera to the BNC labeled "VIDEO IN" on the Inter-Check ICI1000S (refer to Figure 1). This normally comes from your camera, splitter, switcher or quad. For Coaxitron matrix installations, connect the cable from the desired MONITOR OUTPUT to the BNC labeled "VIDEO IN" on the Inter-Check unit.

2. Connect a cable from the BNC labeled "VIDEO OUT" on the Inter-Check ICI1000S Series to the video input of your video cassette recorder or monitor.
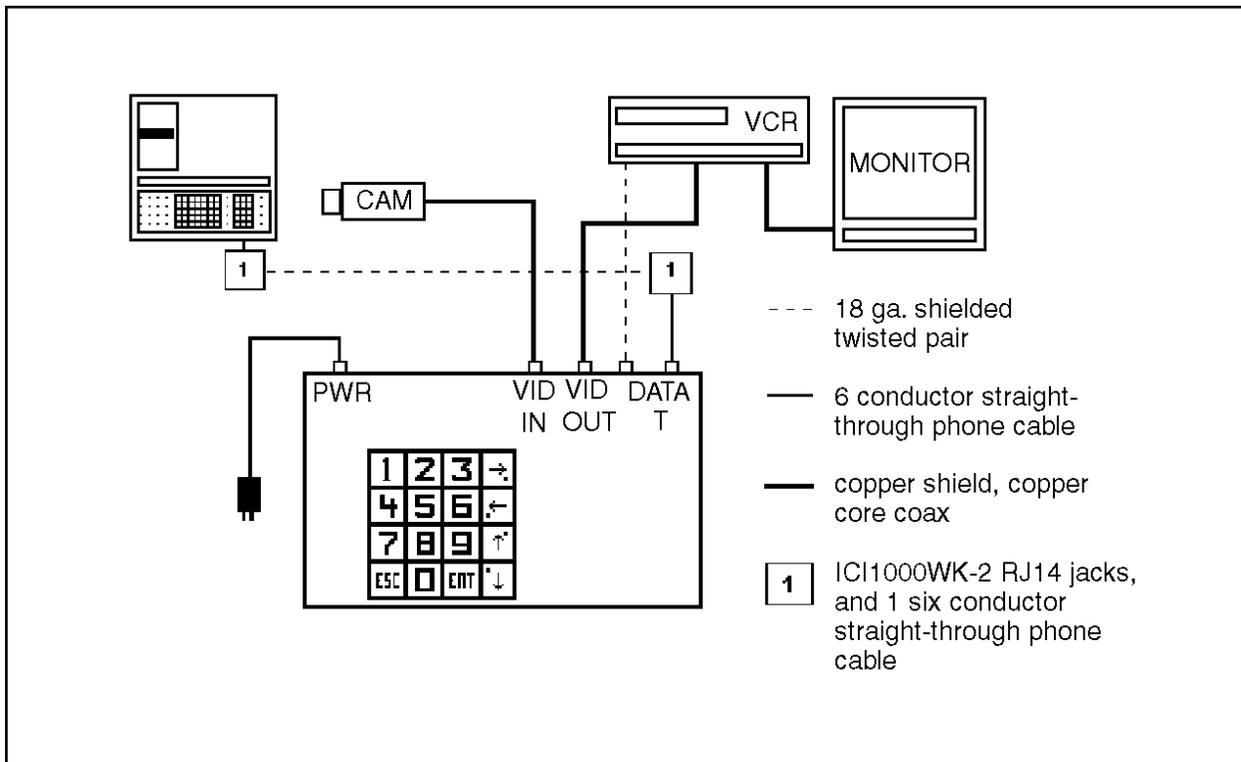
Figure 1. Basic ICI1000S Configuration Wiring Diagram

To Inter-Check Unit

Straight through
phone cable

WH BL
BK YL
RD GR

User-supplied cable.
18 AWG shielded wire is
suggested

From ICI1000PIM

WH BL
BK YL
RD GR
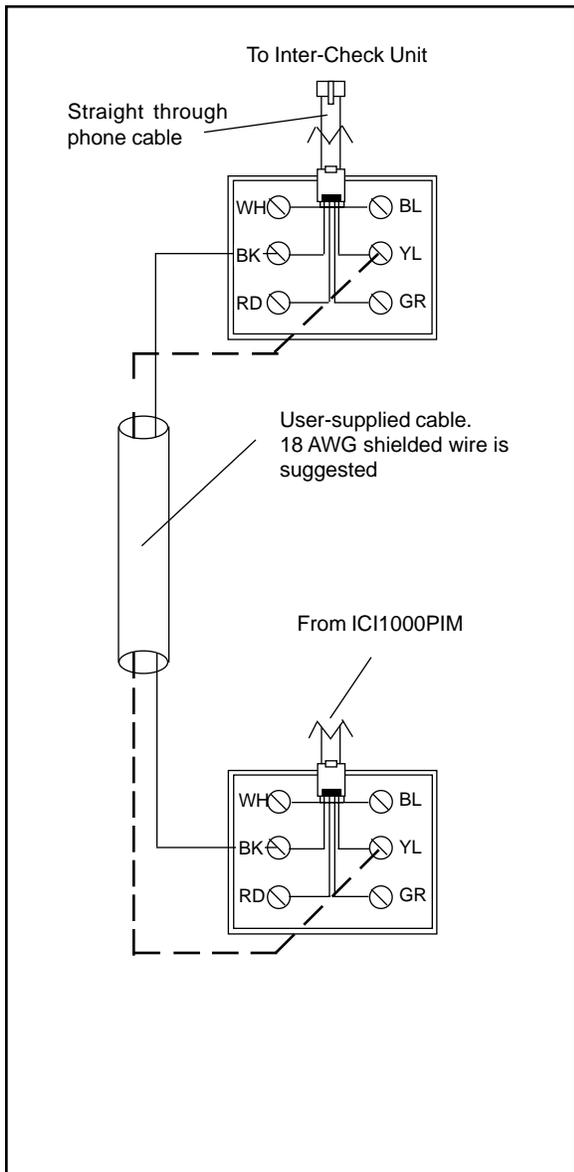
Figure 2. ICI1000PIM Wiring Configuration

To Inter-Check Unit

Straight through
phone cable

WH BL
BK YL
RD GR

User-supplied cable.
18 AWG shielded wire is
suggested

From RS-232 style input

WH BL
BK YL
RD GR

NOTE: For RS-232 style applications only.
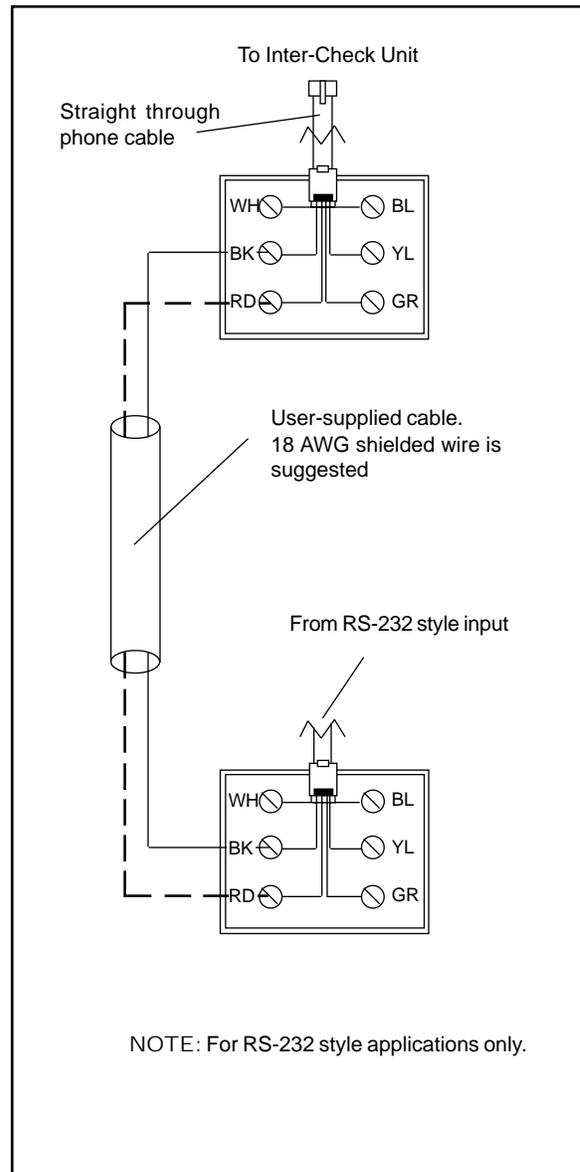
Figure 3. Standard RS-232 Style
Wiring Configuration

3. Connect the data cable from the register interface cable (or PIM) to "DATA IN" on the Inter-Check ICI1000S, using the ICI1000WK and 18 gauge, 2-conductor shielded cable (see Figure 1).

4. If using alarms, attach a 22-gauge, 2-conductor shielded cable from the "ALARM OUT" of the Inter-Check ICI1000S Series unit to your VCR, switcher, or other alarmable device.

5. Plug the power supply for the Inter-Check ICI1000S Series unit into a 120 VAC outlet.

6. Use the keypad on top of, or inside, the ICI1000S chasis to set the standard PIM defaults. Press ENT, 6, 8 and then ESC to return to monitoring mode. This step is required for all ICI1000S systems (refer to Figure 4).

> **NOTE:** ICI1000SI models have an internal keypad; ICI1000SE models have an external keypad.

7. Set the dip switches on the front of the ICI1000PIM to match the setting for your register model number. Use the ICI1000PIM switch settings located in the ICI1000PIM manual or Appendix B of this manual. If your register does not require an ICI1000PIM, disregard this step.

8. Plug the power supply for the ICI1000PIM into a 120 VAC outlet. The monitor should now display the register model number.

9. If using the auxiliary print feature, and/or alarm inputs, follow the wiring diagram in Figure 4 for proper installation.

> **NOTE:** The monitor should now show the initialization message shown below.
>
> Pelco
> INTER-CHECK/S VER X.X
> ROM CHECK = YYYY
> CALC. ROM CHECK = YYYY
> SYSTEM BEING INITIALIZED!
> MM VER. Z.Z
> (register model # displayed here)
>
> **NOTE:** If you do not receive this message, refer to the troubleshooting guide in Section 5.0. If your installation does not require the use of an ICI1000PIM, the register model number will not appear.

NOTE: A serial printer used with the Inter-Check ICI1000S Series must be set at 1200 baud, 8 bits, no parity.
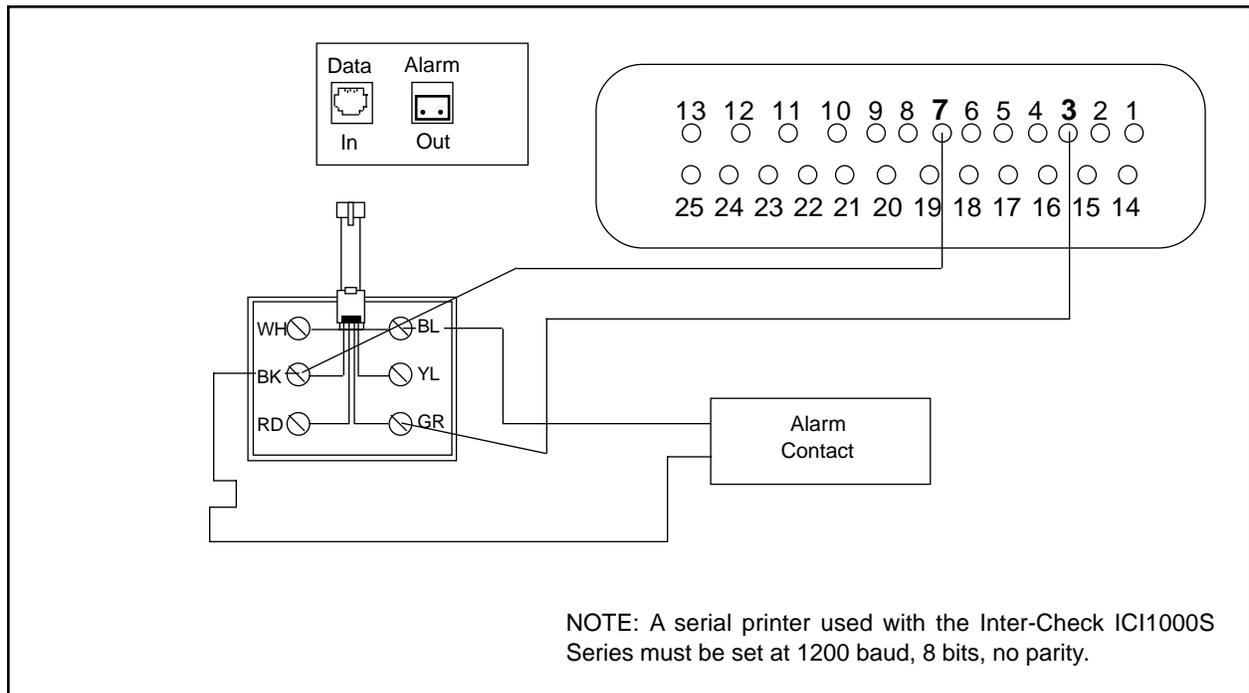
Figure 4. Printer Output and Alarm Input Wiring

3.3 VIDEO ADJUSTMENTS

All video adjustments are located on the bottom of the Inter-Check unit (refer to Figure 5). Using a non-metallic screwdriver, make any necessary adjustments as follows:

* **Horizontal Positioning** adjusts the height of the displayed text. To raise the text position, turn the potentiometer labeled "H" slightly clockwise. This adjustment will also correct double-sized characters appearing on the screen.

* **Vertical Positioning** adjusts the lateral position of the displayed text. To move the text to the left, turn the potentiometer labeled "V" slightly clockwise. This adjustment will also correct "jittering" text.

* **Intensity** adjusts the brightness of the text. To increase the intensity of the text, turn the potentiometer labeled "I" slightly clockwise.

* **Gain** adjusts the entire video screen. Too much gain will distort the video picture. To reduce video gain, turn the potentiometer labeled "G" slightly counter-clockwise.

* **Horizontal Size** adjusts the width of the text. To increase the text width, turn the potentiometer labeled "S" slightly clockwise.

* **Character Size** adjusts the size of the characters. There are four selections. Set the switches marked "C" in one of the following choices: both up, both down, first switch up and second one down, or first switch down and second one up.
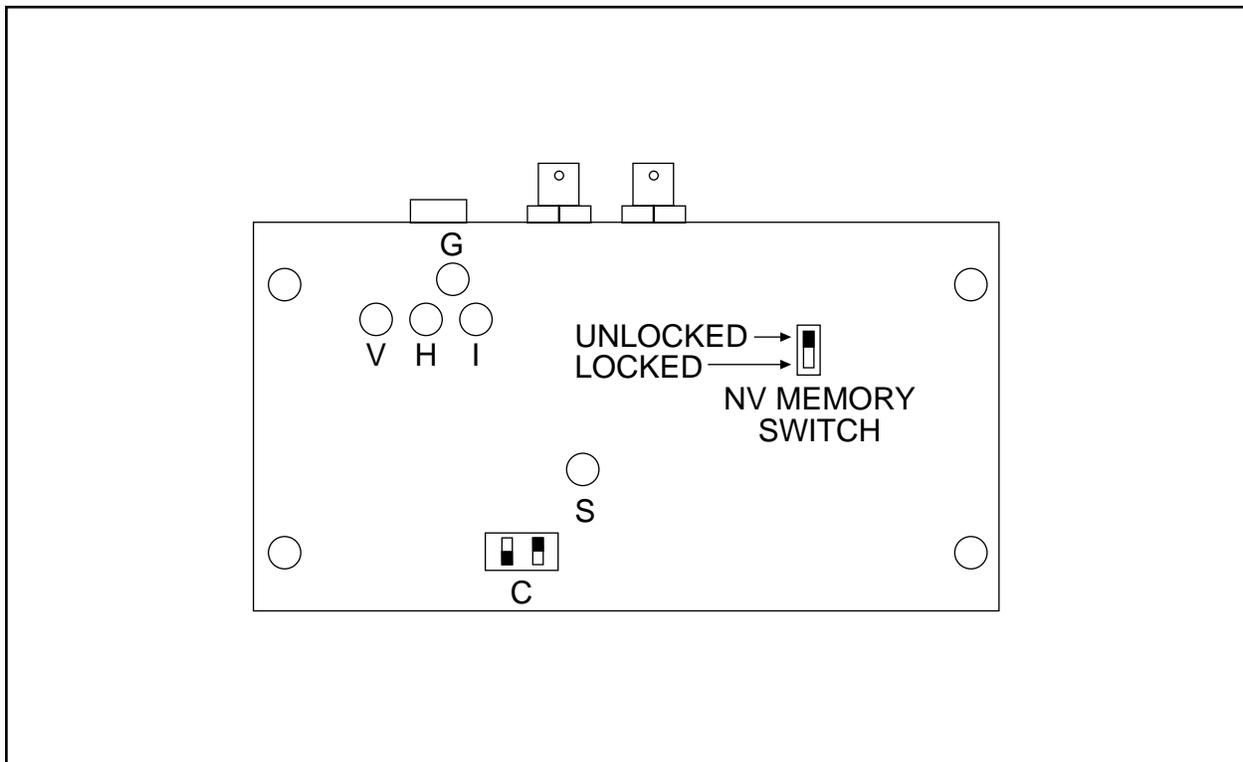
Figure 5. Video Adjustment Locations

4.0 INTER-CHECK ON-BOARD KEYPAD OPERATION

The Inter-Check ICI1000S Series features a compact, 64 function keypad used for all programming functions. Refer to Figure 6. The keypad contains 16 keys. The four keys on the right side of the keypad are used for both cursor movement and "shift operations". The remaining keys contain alpha, numeric, and other characters for editing your program. These keys each contain five functions when used with the shift keys.

To select:	Press:
White Character	Desired Key
Color Character	Cursor key of matching color and then desired key.
Cursor Movement	Desired arrow key twice.
Main Menu	Enter (ENT)
Exit Main Menu	Escape (ESC)

4.1 PROGRAMMING THE ICI1000SI

NOTE: Please familiarize yourself with the information in this manual prior to installation and operation. Contact the customer's register dealer/installer prior to installation and operation. Some warranties and/or service agreements may be affected.

If your Inter-Check unit is an ICI1000SI, it utilizes an internal keypad for programming all parameters. Follow the steps below prior to programming.

1. Power down the Inter-Check ICI1000SI unit.

2. Remove the four cover screws with a Phillips screwdriver and set the cover aside.

3. Power up the ICI1000SI unit.

4. Program the Inter-Check unit for your particular application.

5. When finished programming, replace the cover and screw down firmly.

4.2 THE NV MEMORY WRITE PROTECT SWITCH

Your new Inter-Check ICI1000S Series incorporates a Non-Volatile (NV) type memory. This type of memory does not require a battery to operate. Refer to Figure 5 for the location of this switch and note the locked and unlocked positions. This switch must be positioned in the UNLOCKED position if you intend on programming the Inter-Check ICI1000S Series unit. If the switch is in the LOCKED position and you try to enter programming data, an "ERROR IN WRITING NV MEMORY !!!" warning will be displayed on the monitor screen. To allow programming, simply position the write protect switch to the UNLOCKED position. When programming is complete, position the switch to the LOCKED position. This will protect your programming from possible errors that may occur during AC power fluctuations or complete Inter-Check ICI1000S Series power loss.

Figure 6. Keypad Layout

ICI1000S PROGRAMMING MENU TREE

Channel Program Menu

1. Communication Setup
2. Data Format/Communica-tion Protocol
3. Video Parameters
4. ATM Line Select

— 1 —

Communication Setup Menu

1. Communication Parameters
2. Device Addresses

System Program Menu

1. Alarm Outputs
2. Carriage Return Control
3. Channel Screen Data Position
4. Printer Settings
5. Exception Alarm Settings
6. Exception Alarm Text Edit
7. Exception Column Line

— 2 —

Carriage Return Menu

1. Exception Auto CR
2. End Of Line Stop

Monitoring Mode

↵ ENT

Clock Program Menu

1. Set Clock
2. Clock ID On and Screen Position Set
3. Clock ID Off
4. USA Standard Date
5. European Date
6. Auto Clock Set

Main Program Menu

1. Channel 1 Setup
2. System Parameters
3. Clock Setup
4. Location ID Setup
5. Customer Header
6. Diagnostics
7. Alarm Inputs

1
2
3
4
6
7

Location ID Setup Menu

1. Location ID Program
2. Location ID on and Screen Position Set
3. Location ID Off

Diagnostics Selection Menu

1. Programm Transfer
2. (DL) Burn In Test
3. (DL) Input Channel Port Test
4. Memory Tests
5. Signals Test
6. Screen Test
7. Graphics Test
8. (DL) PIM Default Load

Alarm Input Menu

1. Alarm Input On/Off
2. Alarm Trigger Dwell
3. Screen Link
4. Auxiliary Print Link
5. Alarm Text

↵ ENT Key moves Inter-Check into the programming mode from the monitoring mode

ESC Key returns to the previous menu

Select catagories by number

4.3 CHANNEL SETUP

There are two ways you can view your current channel parameters:

1. Press the "1" key on your keypad while in the monitoring mode.

2. Select CHANNEL SETUP (#1) in the MAIN PROGRAM MENU.

After executing one of these steps, an example of what you might see is shown below:

```
SELECTED: CHANNEL
Pelco PIM STANDARD
9600 BAUD,8 BITS,OFF PARITY
NRZ,ASCII,DATA INVERT
DEVICE ADDRESS 1 = 00H 0
DEVICE ADDRESS 2 = 00H 0
NOR. VID,OFF ID.,30 CHARACTERS
18 LINES,DATA DWELL=0
ALARM DWELL : 6/D1
EALRM = ON/VP PNTR = OFF
```

CHANNEL PROGRAM SELECTION MENU
1. COMMUNICATION SETUP
2. DATA FORMAT/COMMUNICATION PROTOCOL
3. VIDEO PARAMETERS

4.3.1 Communication Setup

This selection allows you to set COMMUNICATION PARAMETERS and DEVICE ADDRESSES. The communication parameters must be programmed correctly in order for the Inter-Check ICI1000S Series to accept data from your interface. Device addresses are used predominantly in ATM programming. Upon entering this menu, you will notice that the channel's current COMMUNICATION SETUP parameters are displayed as shown below.

```
COMMUNICATION SETUP MENU

SELECTED: 9600 BAUD,8 BITS,OFF PARITY
NRZ,ASCII,DATA INVERTED
DEVICE ADDRESS 1 = 00H 0
DEVICE ADDRESS 2 = 00H 0

1. COMMUNICATION PARAMETERS
2. DEVICE ADDRESSES
```

NOTE: If the current settings are acceptable, press the ESC key which returns to the CHANNEL PROGRAM SELECTION MENU. If you wish to change the communication parameters, press "1". To change the device addresses press "2".

4.3.2 Communication Parameters

This menu enables you to program the data string format, baud rate, and character set into the Inter-Check ICI1000S series.

NOTE: If you do not want to change items within this menu, simply press ESC. The ESC key will save the contents on the current line and bring you to the prompt on the next line.

BAUD RATE =?

This prompt enables you to change the baud rate. Enter the appropriate data and press ENT to save. Use 9600 when connecting to a PIM. Setting the baud to 0 will turn off the data channel.

BITS (7 or 8) =?

Enter the appropriate number of data bits by pressing a 7 or 8 on your keypad. Use 8 when connecting to a PIM.

PARITY = 1. ODD, 2. OFF, 3. EVEN

Enter the correct parity configuration of your device by selecting 1, 2 or 3. Choose #2 for a PIM.

1=NRZ OR 2=NRZI

Choose the appropriate code transmission format by selecting 1 or 2. NRZ is the most common format. An exception to this is the SNA/SDLC type of communications. Select #1 for normal PIM applications.

1=ASCII OR 2=EBCDIC

The fifth prompt sets up the character set for the Inter-Check ICI1000S Series. Press a "1" to select ASCII and "2" for EBCDIC. The ASCII character set is the most common whereas EBCDIC is used predominantly in IBM systems. Select ASCII when connecting to a Pelco PIM.

1=DATA NON INVERT OR 2=DATA INVERT

This prompt sets up the Inter-Check ICI1000S series to receive either inverted or non-inverted data. This selection varies from one register to the next. Choose DATA INVERT in PIM applications.

After you have answered all of the prompts, the Inter-Check ICI1000S Series will show you the changes (if any) you have made. If the changes are correct, press ESC. If the changes are incorrect, follow the same steps just described. Again note that if you do not want to edit a certain parameter you can skip and save the initial settings by pressing ESC.

4.3.3 Device Addresses

Select this menu by pressing #2 in the Communication Setup Menu. As mentioned earlier, DEVICE ADDRESSES are used in ATM installations. A device address is the electronic address of the specific ATM being monitored. The Inter-Check ICI1000S Series allows you to enter two DEVICE ADDRESSES.

> **NOTE:** Appendix A illustrates a Hexadecimal to Decimal conversion chart that you may find helpful. Also, set the unused device address to 00H.

After pressing #2 the screen will display:

DEVICE ADDRESS -1 3 DECIMAL DIGITS (000-255) = ?

This prompts you to enter the appropriate address up to three digits in length. This address must also be between the specified boundaries, 000-255. If less than three digits are used, you must press ENT to save. Pressing the ESC key will return you to the CHANNEL PROGRAM MENU.

The next prompt reads:

DEVICE ADDRESS -2 3 DECIMAL DIGITS (000-255) = ?

Enter the appropriate address as explained above. After pressing ESC or entering an address you will be in the CHANNEL PROGRAM MENU once again. The current programmed addresses are displayed in both Hexadecimal and Base 10 formats.

> **NOTE:** If you are using SNA or SDLC formats, make both device addresses the same value.
>
> **NOTE:** Setting both addresses to 00 puts the Inter-Check ICI1000S Series unit into diagnostics mode. In this mode the Inter-Check ICI1000S Series unit will display all network activity including the proper device address in your installation.

4.4 DATA FORMAT/COMMUNICATION PROTOCOL

Select this menu by pressing #2 in the CHANNEL PROGRAM MENU. The menu allows you to choose the type of device you are connecting to. After pressing #2 the current settings will be displayed. An example might be:

DATA PROTOCOL MENU
SELECTED: PIM STANDARD

To select the proper communication protocol for your application, use the ENT key or the up and down cursor control keys to scroll through your options. When you reach the device, save the selection by pressing ESC.

Current options include:
- PIM STANDARD
- PIM GRAPHICS
- ICL PRINTER
- WAYNE-DRESSER PRINTER
- DIEBOLD 910/911 : NCR 751/279
- DIEBOLD 910/911 : TC 500/700
- DIEBOLD 910/911 : TC 500/700 SYNC
- DIEBOLD 910/911 : IBM 3275
- DIEBOLD 910/911 : IBM 2260
- DIEBOLD 910/911 : IBM 2265
- DIEBOLD 910/911 : SNA/SDLC
- IBM3624
- NCR NATIVE MODE
- IBM NATIVE MODE
- RS232 STANDARD PRINTER

4.5 VIDEO PARAMETERS

To view the video parameters setting press #3 in the CHANNEL PROGRAM MENU. The Inter-Check ICI1000S Series will display the current settings. Pressing ESC will skip the current line and allow you to continue in the CHANNEL PROGRAM MENU.

VIDEO PARAMETER SETUP MENU
SELECTED: NOR VID, OFF ID., 30 CHARACTERS
18 LINES, 0 DATA DWELL

ENTER DATA OR ESC TO SKIP
REVERSE VIDEO = 1. REV, 2. OFF =?

You may find this feature very useful in bright lighting conditions. When it is turned on it creates a dark background around the white text displayed on the monitor. Reverse video is used for ease in readability. If you want this feature turned on, press 1. For normal video presentation press 2.

ID. VALUE 0 = OFF, (1-7) = "A" TO "G"

This second prompt enables you to identify the data screen. This ID will remain on the screen at all times. For example, you may want to label the data channel "A" for ease in recognition while viewing the video tape. This feature is very useful if two Inter-Check ICI1000S Series are used together on a single VCR and/or monitor. Refer to Table 1 for a cross-reference. If you do not wish a screen ID value, press 0 or ESC.

Table 1. Data Screen ID	
Selection	Display
1	A
2	B
3	C
4	D
5	E
6	F
7	G

MAX CHARACTERS PER LINE (01-80)

Selection #3 designates how many characters per line you want displayed on the monitor. Simply press any number from 1-80 that best suits your application. Default value is 30.

NUMBER OF LINES DISPLAYED (01-18)

This selection specifies the number of lines you wish to be displayed. Select the appropriate number of lines for your application and press enter. The default value is 18 lines.

DATA DWELL TIME IN SECONDS (000-255)

The data dwell time defines the duration of time the data will stay on the screen. Simply enter the appropriate number of seconds that best suits your needs and press ENTER. For example, if you want the data to stay on the screen for 5 seconds after the last line is printed, press 5 for the data dwell time. The default value is 0 which forces the data "on" at all times.

Example:
A five-second dwell is entered as **005 ENTER**

4.6 SYSTEM PARAMETERS

(Selection #2 from the main menu)

4.6.1 Alarm Output

This selection allows you to set the alarming output features. This output is a normally open closure used to control external alarmable devices. This output can become active if:

- Data is present on the channel.
- Exception is met on the data channel.
- Closure is seen on the alarming input.

The first line in this menu is:

ALARM DWELL : 6/D1

(D1 = Data Alarm ON; E1 = Exception Alarm ON)
(I1 = Alarm Input On)

This line gives you the current status of the alarming output. If, for example, the first line of this menu read "ALARM DWELL : 30/D1E1" the alarm would remain active for 30 seconds upon the occurrence of either data or an exception on the data channel. 6/D1 is the default factory setting.

The next prompt is:

ALARM DWELL TIME IN SECONDS
(001-255)=?

Simply enter in the amount of time you wish the alarming output to remain active in seconds and press ENT.

The following prompts allow you to activate the alarming output upon the occurrence of data and/or an exception on the channel.

CHANNEL DATA ALARM ?
1=OFF 2=ON
CHANNEL EXCEPTION ALARM ?
1=OFF 2=ON

4.6.2 Carriage Return Control

The carriage return control feature allows you to use your Inter-Check ICI1000S Series unit with devices that do not execute a carriage return at the end of the data lines or a device that has a scrolling message when transactions are not taking place. If a carriage return is not found at the end of a line, the Inter-Check ICI1000S Series unit cannot correctly place the text on the screen or do exceptions on that line. This problem can be solved with the EXCEPTION AUTO CR feature of this menu. The END OF LINE STOP feature allows you to force the Inter-Check ICI1000S Series to stop its display at the end of the line when a carriage return is not received. This is useful when a device scrolls messages when transactions are not taking place.

> **NOTE:** The "end of the line" is dependent on the MAXIMUM CHARACTERS PER LINE setting in the VIDEO PARAMETERS menu.

The first prompt in this menu is:

1. EXCEPTION AUTO CR
2. END OF LINE STOP

Entering 1 for EXCEPTION AUTO CR will bring up the following:

EXCEPTION AUTO CR MENU
EXC. CR
SELECTED: OFF
CR DWELL:1
ENTER DATA OR ESC TO SKIP
1=OFF 2=ON

Selecting 1 in this menu turns off the auto carriage return feature and brings you back to the EXCEPTION AUTO CR MENU. Selecting 2 in this menu will bring up the next prompt:

CR DWELL TIME IN SECONDS (000-255)=?

At this prompt enter the amount of time in seconds you wish to wait before the Inter-Check unit automatically inserts a return. You will then return to the EXCEPTION AUTO CR MENU.

Entering 2 in the CARRIAGE RETURN MENU will bring up:

END OF LINE STOP MENU
STOP
SELECTED: OFF

ENTER DATA OR ESC TO SKIP
1=OFF 2=ON

Enter your choice by pressing 1 or 2. You will be brought back to the CARRIAGE RETURN MENU.

4.6.3 Camera Screen Data Position

This option allows you to position the data anywhere on the monitor's screen. When this option is selected a block of ones (1) is displayed on the monitor which represents the current size and position of the displayed data. Move the block by pressing the arrow keys twice for each increment. After the block has been moved to the desired position, press ENT to save.

4.6.4 Printer Settings

The PRINTER SETTINGS selection allows you to enable the auxiliary printer output port and select the data being sent to the printer. The first thing displayed in this menu is the current status of the AUX port.

CHANNEL DATA TO AUX PRINT ?
1=AUX 2=OFF

Pressing 1 will send the data received on the channel to the auxiliary port.

Pressing 2 will turn off the auxiliary printer port.

> **NOTE:** A serial printer used with the Inter-Check ICI1000S Series must be set at 1200 baud, 8 bits, no parity.

4.6.5 Exception Alarm Settings

Programming Exceptions

EXCEPTIONS are situations of special interest that you can program into your Inter-Check ICI1000S Series unit. They are used to alarm your VCR or other alarmable devices when a certain condition has been met. Exceptions can also be directly printed to an external printer. Exception flagging will save you valuable time reviewing VCR tapes because you have the ability to view only events of specific interest.

Entering the Exception Menu

To select the Edit Exception Text menu while in the monitoring mode, follow these steps:

Press the ENT key (you will hear one tone). The MAIN PROGRAM MENU will be displayed.

MAIN PROGRAM MENU

1. CHANNEL SETUP
2. SYSTEM PARAMETERS
3. CLOCK SETUP
4. LOCATION ID. SETUP
5. CUSTOMER HEADER
6. DIAGNOSTICS
7. ALARM INPUTS

Press #2 (you will hear one tone) which corresponds to the SYSTEM PARAMETERS MENU. The following text should appear:

SYSTEM PROGRAM MENU

1. ALARM OUTPUTS
2. CARRIAGE RETURN CONTROL
3. CHANNEL SCREEN DATA
   POSITION
4. PRINTER SETTINGS
5. EXCEPTION ALARM SETTINGS
6. EXCEPTION ALARM TEXT EDIT
7. EXCEPTION COLUMN LINE

(Selection #5 in the System Program Menu)

> **NOTE:** In order for the Inter-Check ICI1000S Series to "capture" exception text you must turn on the EXCEPTION ALARM SETTINGS. An example is shown below:
>
> CHANNEL : EALRM = ON / PNTR = ON
> ESC TO EXIT OR ENTER TO EDIT?

The above example shows that Channel Exceptions are turned ON and are being "sent" to an auxiliary printer. Press ENT to edit; the prompt reads:

CHANNEL EXCEPTION FLAG ?
1=OFF 2=ON

Press 1 to turn channel exceptions OFF or 2 for ON.

CHANNEL EXCEPTION MARKER VIDEO PRINT ?
1=OFF 2=ON

The Exception Marker Video Print displays asterisks around an exception appearing on the monitor and/or printer. It is designed to capture your attention when an exception has occurred. Press 1 or 2 for your choice.

CHANNEL EXCEPTION MARKER AUX. PRINT ?
1=AUX 2=OFF

This menu is used if you have an external serial printer. This menu enables you to send data to the auxiliary output port. If you do not utilize an external printer, press #2.

4.6.6 Exception Alarm Text Edit

(Selection #6 in the System Program Menu)

After Pressing #6 the following numbers will appear across your monitor screen:

12345678901234567890123456789012345678901234567890
 = =

This row of numbers is referred to as the Exception Column Line. This will aid you in programming various parameters which will be covered later in this section. As mentioned earlier, the Exception Column Line exactly matches the EXCEPTION COLUMN LINE in the monitoring mode (when it is turned on).

The text editor has two prompts; == and =>.

The == prompt signifies that the edit mode has not been entered on that line. You may either edit the line or press the ENT key to skip.

The => prompt signifies that the edit mode has been entered on that line. You must view the whole line of text before you press enter or the line will be deleted.

> **NOTES:** The ENT and the INS key must be used together to save all changes. If you make changes within a line, move the cursor to the end of the line with the RIGHT ARROW key and press ENT. Pressing the ESC key deletes all the changes and the text returns to its original settings.
>
> Unlike the ICI2000D, the ICI1000S automatically converts all text into capital letters for comparison purposes. Therefore, when programming exceptions, you do not have to worry about capital and lower-case designations.

4.6.6.1 Keypad Definitions

Listed below are the various keys you will be using when programming exceptions on the Inter-Check ICI1000S Series. Pelco suggests that you become familiar with the functions before attempting to use the exception menus.

INS	Saves all changes in Text Editor and exits back to SYSTEM PROGRAM MENU. The INS key is also used in conjunction with the ENT key.
ENT	Saves changes to one line in the Text Editor.
DEL	Deletes a line.
ESC	Saves any changes made in the editor and exits back to the SYSTEM PROGRAM MENU.
(^)	Wildcard or column specific character. The caret (^) symbol is displayed by pressing the right arrow key followed by a 6.
SPACE	Inserts position spaces. To insert a space, press the right arrow key.
(\)	The back-slash (\) is used to describe a transaction. This symbol is created by pressing the right arrow key, followed by an 8.
(¦)	The "double bar" (¦) is used in price point formats to define and manipulate a string of numbers. This symbol is created by pressing the right arrow key, followed by a 9.

> **NOTE:** The next three symbols are used in conjunction with the "double bar" described above.

(=)	Used to identify an equal comparison in the price point format.
(<)	Enables you to flag on values less than a specified number being defined with the double bar in the price point format.
(>)	Enables you to flag on values greater than a specified number being defined with the double bar in the price point format.

4.6.7 Programming Stratagies

Exceptions Using the GLOBAL Strategy

This is used to flag on any text regardless of placement on the register ticket.

> **EXAMPLE:** Flagging on any VOID within your system.

You must first enter into the Exception Alarm Text Edit mode. To do this press #2 in the MAIN PROGRAM MENU (SYSTEM PARAMETERS). Then press #6 in the SYSTEM PROGRAM MENU (EXCEPTION ALARM TEXT EDIT).

The display should now read:

```
12345678901234567890123456789012345678901234567890
 = =
```

1. Type VOID to match the exact format it is printed on the register ticket.

```
12345678901234567890123456789012345678901234567890
 =>VOID
```

2. Press ENT to save the exception.

3. Press INS to save the changes.

4. Turn on the EXCEPTION ALARM SETTINGS. For further instructions, refer to EXCEPTION ALARM SETTINGS previously described.

5. Press ESC three times to resume monitoring.

Exceptions Using the COLUMN SPECIFIC Strategy

This is used to flag on specific placement of text on the register ticket. This type of exception uses the (^) character on your keypad. It is used to capture text according to the position on the register ticket. When this type of exception strategy is used, the Inter-Check ICI1000S Series searches for specific column placement of data defined by the number of ^ symbols you use. It may be useful for you to refer to the explanation of the EXCEPTION COLUMN LINE to ensure proper positioning.

> **EXAMPLE:** Flagging on department number 5200 but your register prints it as " 5200 40.00 "

1. Turn on the exception column line by pressing selection #7 (EXCEPTION COLUMN LINE) in the SYSTEMS PARAMETER MENU.

2. Press ESC three times to return to the monitoring mode.

Let's say the display read:

```
12345678901234567890123456789012345678901234567890
       5200     $40.00
```

3. Press ENT to access the MAIN MENU.

4. Press 2 to access the SYSTEMS PARAMETER MENU.

5. Press 6 to edit exception text.

6. Key in the following:

```
12345678901234567890123456789012345678901234567890
 =>^^^^^5200
```

7. Press ENT to save the exception.

8. Press INS to save the changes.

9. Press ESC three times to return to the monitoring mode.

Exception Flagging Using WILDCARDS

Used to flag on groups of transactions or departments. This type of exception also uses the caret (^) character and is usually used with the COLUMN SPECIFIC type of exception. Again, it is suggested that you use the EXCEPTION COLUMN LINE.

> **EXAMPLE:** Flag any transaction in your jewelry department where the department number is 5200-5299. Also, the register prints it out as " 5250 $40.00 "

1. Follow steps 1-5 in the previous example.

2. Key in the following:

```
12345678901234567890123456789012345678901234567890
 =>^^^^^52^^
```

3. Follow steps 7-9 in the previous example.

> **NOTE:** When the ^ key is used as the first character of exception text, it causes that line to be Column Specific. Also, when the ^ is preceded by any other character it will then be read as a Wildcard character.

Exception Marking Using the DESCRIPTOR

The back-slash symbol (\) is used to describe a certain transaction you are flagging. It is printed on the line after the exception in the video or printer flag display.

> **EXAMPLE:** Describe the department 5200-5299 in the above example with a descriptor of JEWELRY DEPARTMENT.

1. Follow the same programming steps used in the previous example.

2. Key in the following:

```
12345678901234567890123456789012345678901234567890
^^^^^52^^\JEWELRY DEPARTMENT
```

The PRICE POINT Exception Flag Strategy

The Double Bar character (¦) key enables you to flag or compare any number that is equal to, greater than, or less than a desired number.

> **EXAMPLE:** Flagging on any price over $40.00 in department 52XX and labeling the exception with a descriptor of JEWELRY DEPARTMENT.

1. Select 7 in the SYSTEM PARAMETER MENU. This turns on the Exception Column Line in the monitoring mode.

2. Press ESC three times to return to the monitoring mode.

    Let's say the screen read:

```
12345678901234567890123456789012345678901234567890
   5248    $40.00
```

3. Press ENT.

4. Press 2 to access the SYSTEMS PARAMETER MENU.

5. Press 6 to edit exception text.

6. Key in the following:

```
12345678901234567890123456789012345678901234567890
 =>^^^^^52^^ ¦40.00¦ >\JEWELRY DEPARTMENT
```

7. Press ENT to save the exception.

8. Press INS to save the changes and exit.

9. Turn on the Exceptions. Do this by pressing #5 in the SYSTEM PROGRAM MENU and answering the prompts. For a further explanation on how to turn on exceptions refer to EXCEPTION ALARM SETTINGS.

10. Press ESC three times to return to the monitoring mode.

Notice that the second double bar is placed directly after the data you are interested in. This format holds true for any transaction you wish to flag using the double bar format. The first double bar has a leeway of 15 characters or spaces. In other words, in the previous example the first double bar could be placed at 15 spaces to the left of the 4 in $40.00, but the second double bar must be inserted directly after the last 0 in $40.00. Therefore, if your register prints negative numerical values with a minus sign behind the text and you wish to flag this type of transaction, you must insert the minus sign in front (some registers record a refund with a minus sign). For example, if the above example printed out a refund of $40.00 as 40.00- you would capture this data as an exception by programming the Inter-Check ICI1000S Series in the following format:

¦-40.00¦ >\JEWELRY DEPARTMENT

4.6.8 Exception Column Line

(Selection #7 in the System Program Menu)

This selection proves to be a valuable tool when editing exceptions. When this function is turned on, a row of numbers will appear across the screen in the monitoring mode. The row of numbers will exactly match the row found in the EXCEPTION ALARM TEXT EDIT menu (explained prior). This function will save you time when you have a lot of text or multiple spaces between numbers or characters and are using column specific exceptions. Examples of this function are also explained in the following pages.

4.7 CLOCK SETUP

The Inter-Check unit can be programmed to display the time and date on the video monitor in any convenient location. The Inter-Check also accepts the USA or European date structure. The AUTO CLOCK feature allows the Inter-Check unit to synchronize with the cash register or ATM machine clock. If the register or ATM has a clock that is displayed with the data, it is suggested that the auto clock load feature be used. This will remove the inaccuracy of using the Inter-Check's clock.

> **NOTE:** The internal clock on the Inter-Check ICI1000S Series is software generated and <u>is inaccurate</u>.

Entering 4 in the main menu will bring up the CLOCK PROGRAM menu:

CLOCK PROGRAM MENU

1. SET CLOCK
2. CLOCK ID. ON AND SCREEN POSITION SET
3. CLOCK ID. OFF
4. USA STANDARD DATE
5. EUROPEAN DATE
6. AUTO CLOCK SET

4.7.1 Set Clock

Entering 1 in this menu allows you to set the internal clock. The following prompt will follow:

YR,MT,DY,HR,MN,SC,DW
XX XX XX XX XX

The cursor will start at the far left hand side and move to the right as you enter the information. The backspace key on the keyboard allows you to delete the previous entry. The arrow keys allow you to move back and forth without effecting the entered data. The DW position indicates the day of the week, Sunday being the first day. The clock uses the 24-hour system (military time) so the hour is entered as a number from 01 to 24. The day of the week is entered as a number from 01 to 07.

> **EXAMPLE:** If the day is May 21, 1993 and the time is 1:40:30 p.m. on a Monday, the following information would be entered:
>
> YR,MT,DY,HR,MN,SC,DW
> 93 05 21 13 40 30 02

4.7.2 Clock ID On and Screen Position Set

Selection 2 in the CLOCK PROGRAM MENU will turn the clock on and allow positioning on the screen. Press the arrow keys twice for each increment to move the time and date to the preferred position and press ENT to save.

4.7.3 Clock ID Off

The 3rd selection in the menu will turn off the time and date video display.

4.7.4 USA Standard Date

Pressing 4 will set the date in the USA standard format (month, day, year).

4.7.5 European Date

Pressing 5 will set the date in the European standard format (day, month, year).

4.7.6 Auto Clock Set

Choosing selection 6 in the CLOCK PROGRAM MENU permits the use of the AUTO CLOCK feature. In order to use this function, the register's clock must be displayed on the monitor by the ICI1000S. Most registers will display this information. The programming prompt begins:

> CHANNEL AUTOSET ?
> 1=OFF 2= ON

Pressing 1 will disable the AUTO CLOCK SET.

Pressing 2 will enable the AUTO CLOCK SET.

> 12 HOUR MODE LOOK ?
> 1=OFF 2=ON

Select 1 if the register displays the time in a 24-hour format.

Select 2 if the register displays the time in a 12-hour format.

> **NOTE:** If the 12-hour mode is used the Inter-Check looks for an "A" or a "P" designating A.M. or P.M. In the 24-hour mode the Inter-Check loads the time by numerical values.

> DATE DELIMITER 1.(/) 2.(-)

Select 1 if the date displayed by the register uses (/) as a delimiter.

Select 2 if the date displayed by the register uses (-) as a delimiter.

> TIME DELIMITER 1.(:) 2.(-)

Use the same procedure for selecting the time delimiter as the date delimiter.

> **NOTE:** The Autoclock Load does not discriminate the seconds position. It will always load in 30 seconds.

4.8 LOCATION ID SETUP

(Selection #4 from the main menu)

The LOCATION ID is normally used to place the name or location of the user's store. The ID can be placed anywhere on the screen and stays resident on the screen at all times. This feature is useful when one party is reviewing video tapes from multiple store locations.

Pressing 3 in the MAIN PROGRAM MENU will bring you to the LOCATION ID SETUP menu:

> LOCATION ID SETUP MENU

1. LOCATION ID PROGRAM
2. LOCATION ID ON AND SCREEN POSITION SET
3. LOCATION ID OFF

4.8.1 Location ID Program

Number 1 in this menu allows you to program the text for the ID:

ENTER DATA WANTED UP TO 12 CHARACTERS.

(ESC) TO SKIP, (ENTER) TO ENTER,
(BS) TO BACKSPACE

Enter the text you wish to have displayed, up to 12 characters long, and press ENT to save.

4.8.2 Location ID On and Screen Position Set

Pressing 2 in the LOCATION ID SETUP MENU will turn the ID on at all times. It also allows you to position the ID with the cursor control keys to the desired screen display position.

4.8.3 Location ID Off

Pressing 3 will turn off the ID display.

4.9 CUSTOMER HEADER

(Selection #5 from the main menu)

The CUSTOMER HEADER is the message displayed when the Inter-Check ICI1000S Series is being reset and initialized. This text may be changed to reflect the name of the customer's store or company. Pressing 6 in the MAIN PROGRAM MENU will allow changing the customer header:

ENTER DATA WANTED UP TO 25 CHARACTERS

(ESC) TO SKIP, (ENTER) TO ENTER,
(BS) TO BACKSPACE

Enter the header desired up to 25 characters in length and press ENTER to save.

> **NOTE:** Performing a DEFAULT LOAD (DL) in the Diagnostics Menu will return the customer header to the default setting.

4.10 DIAGNOSTICS

(Selection #6 from the main menu)

> **WARNING:** Some of the tests selected in the DIAGNOSTICS MENU will cause the programming in the Inter-Check ICI1000S Series unit to be lost. These selections are preceded by (DL) in the DIAGNOSTIC SELECTION MENU.
>
> **NOTE:** Some of the tests in the DIAGNOSTICS MENU can only be performed by factory trained personnel.

4.10.1 Program Transfer

The PROGRAM TRANSFER function is used for easy duplication of the Inter-Check ICI1000S Series program. This is especially useful for transferring exception programming to multiple Inter-Check ICI1000S Series units within the same chain of stores. Programming can also be transferred to an IBM compatible PC. This requires a software program which must be ordered directly from Pelco. To accomplish a program transfer a simple cable can either be made or may be ordered from Pelco. Refer to Figure 7 for proper wiring.

Upon entering 1 in the DIAGNOSTICS MENU the following prompt appears:

1. SOURCE   2. DESTINATION

After connecting the cable between the two Inter-Check units, enter #1 for SOURCE on the Inter-Check ICI1000S Series that is sending the program. Then enter #2 on the DESTINATION Inter-Check unit, or the one that is receiving the program data. The program will then be sent automatically. Upon detection of an error in transmission, the system will retry until the proper data is received or until manually aborted by pressing ESC.

> **CAUTION:** Both units must have the same memory map version. The memory map is displayed upon completion of initialization.
>
> MM VER. X.X

4.10.2 (DL) Burn-In Test

(Test performed by Pelco personnel only)

4.10.3 (DL) Input Channel Port Test

(Test performed by Pelco personnel only)
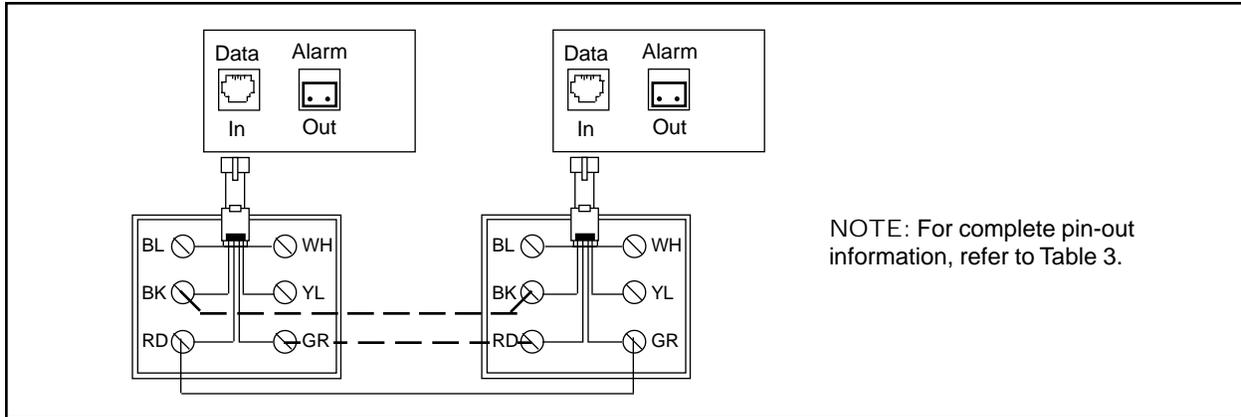
Figure 7. Program Transfer Wiring Diagram

4.10.4 Memory Tests

By entering 4 in this menu the following sub-menu is displayed:

MEMORY TEST MENU

1. RAM TEST
2. VIDEO RAM TEST
3. (DL) NV MEMORY TEST
4. ROM CRC TEST

By selecting 1, the unit will perform a self test on its Random Access Memory. This test is used to verify system RAM integrity. The system will display an OK message if the test passes or an address and data if it fails. ESC brings the Inter-Check ICI1000S Series back to the DIAGNOSTICS MENU.

Selecting 2 in this menu will put the Inter-Check ICI1000S Series into the VIDEO RAM TEST mode. The video RAM is verified by a slotted, scrolling display in the upper left hand corner of the monitor. If an error is detected an address and data will appear on the screen. ESC brings the unit back to the DIAGNOSTICS MENU.

> **WARNING:** When the NON-VOLATILE MEMORY TEST is selected all programming is lost.

The NV MEMORY TEST, (3rd selection), is used to verify the NON-VOLATILE MEMORY integrity. The system will display OK if the test passes. Upon error, the Inter-Check ICI1000S Series will display an address and the data that was written into the memory location.

> **NOTE:** If the Inter-Check ICI1000S Series displays the message "ERROR WRITING NV MEMORY!!!!!!", the write protect switch on the bottom of the Inter-Check ICI1000S Series unit is in the wrong position for this test. Refer to Section 4.2 and Figure 5 for an explanation of this error message.

Pressing #4 will allow the Inter-Check ICI1000S Series unit to perform a CRC test on the Read Only Memory. While this test is running, verify that the ROM CHECK and the CALC. ROM CHECK numbers match. If there is an error the system will beep and display the two different ROM numbers. If a failure occurs, unplug and retry.

4.10.5 System Signals Test

(Test performed by Pelco personnel only)

4.10.6 Video Screen Test

This test produces normal and reverse video images covering the entire screen. It is used to verify video character generation and system control.

4.10.7 Graphics Screen Test

The number 7 selection in the diagnostics menu is used to test the video graphics mode available on the Inter-Check ICI1000S Series unit.

4.10.8 (DL) Pelco PIM Default Load

The Pelco DEFAULT LOAD should be executed for the following situations:

• Before doing any programming of the Inter-Check ICI1000S Series upon initial installation.

• After a firmware update has been completed.

Performing a default load sets up all parameters of the Inter-Check ICI1000S Series unit to the default settings.

This feature of the Inter-Check ICI1000S Series should be used in normal PIM installations. After executing a (DL) the Inter-Check ICI1000S Series communication parameters are set up to receive data from a PIM. The Inter-Check ICI1000S Series communication parameters are set to the following values:

      9600 BAUD
      8 BITS
      OFF PARITY
      NRZ
      ASCII
      DATA INVERTED

To execute a (DL), follow these steps:

1. Press ENT while in the monitoring mode (you will hear one tone). The MAIN PROGRAM MENU will be displayed.

          MAIN PROGRAM MENU

          1. CHANNEL SETUP
          2. SYSTEM PARAMETERS
          3. CLOCK SETUP
          4. LOCATION ID. SETUP
          5. CUSTOMER HEADER
          6. DIAGNOSTICS
          7. ALARM INPUTS

          ESC TO QUIT OR SELECT # TO
          PROGRAM

2. Press #6 (you will hear two tones). The following text will appear:

          DIAGNOSTICS SELECTION MENU

          1. PROGRAM TRANSFER
          2. (DL) BURN IN TEST
          3. (DL) INPUT CHANNEL PORT TEST
          4. MEMORY TESTS
          5. SYSTEM SIGNAL TEST
          6. VIDEO SCREEN TEST
          7. GRAPHICS SCREEN TEST
          8. (DL) Pelco PIM DEFAULT LOAD

          ESC TO QUIT OR SELECT # TO
          PROGRAM

3. Press #8 (you will hear two tones). The Inter-Check ICI1000S Series will prompt you:

          DEFAULTS BEING LOADED

The DIAGNOSTICS SELECTION MENU will be displayed again.

4. Press the ESC key (you will hear one tone). The Inter-Check ICI1000S Series unit will return to the monitoring mode and initialize again.

> **NOTE:** Each time you enter the SYSTEM MENUS and ESC back into the monitoring mode, the initialization message will be displayed.

5. After executing a (DL) Pelco PIM DEFAULT LOAD, the Inter-Check ICI1000S Series system parameters are set to the following:

• Data channel: set for Pelco PIM STANDARD
• Data dwell time: continuous display
• Lines displayed: 18 lines
• Characters displayed: 30 characters
• Alarm output : set for six seconds dwell when data is received.
• Data channel text positioning: column 1
• Exception alarm: OFF
• Auxiliary ports: OFF
• Exceptions: not programmed
• Location ID: not programmed

4.11 ALARM INPUT

(Selection #7 from the main menu)

The ALARM INPUT can be connected to any normally open (open loop) alarm device that can trigger a closure for at least one-half second. Once an alarm is valid, the trigger is reset to open and will not detect the next alarm until timeout. For correct wiring, refer to Figure 8 and Table 3.

After selecting #7, the following text will be displayed:

```
ALARM DWELL : 6/D1
ALARM IN DWELL : 0/OFF/V1 = =>ALARM
IN

ALARM INPUT PROGRAM MENU
1. ALARM INPUT ON/OFF
2. ALARM TRIGGER DWELL
3. SCREEN LINK
4. AUXILIARY PRINT LINK
5. SCREEN HOMING
6. ALARM TEXT
```

NOTE: For a complete table of status label descriptions used in the Inter-Check ICI1000S Series menu system refer to Table 2.

4.11.1 Alarm Input On/Off

This selection enables you to turn the ALARM INPUT on or off. You can also route an ALARM INPUT exception to the output port (i.e., VCR). After pressing #1 you will see the following:

```
ALARM IN
1=OFF  2=ON
```

Press one (1) to turn the input off, or two (2) to turn the input on. The next prompt will read:

```
TRIGGER ALARM OUT
1=OFF  2=ON
```

Select one (1) to not trigger the ALARM OUTPUT on when an alarm from the input is received. Select two (2) to trigger the ALARM OUTPUT when an alarm from the input is received.
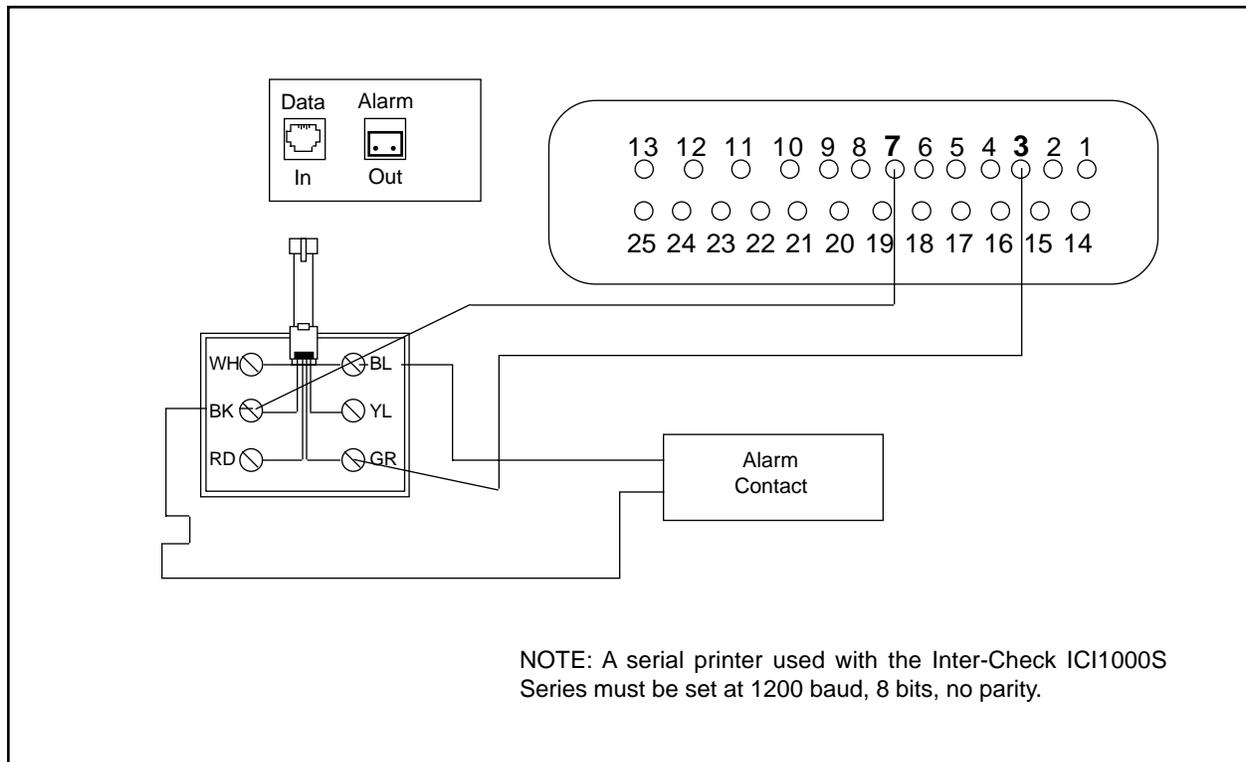
Figure 8. Printer Output and Alarm Input Wiring

4.11.2 Alarm Trigger Dwell

Selection #2 enables you to program the amount of time that the ALARM INPUT closure must be present in order for the Inter-Check ICI1000S Series to recognize it as a valid alarm condition. To program this option, simply enter a suitable value between 000-255 seconds for the minimum duration the ALARM INPUT closure is present. This ensures the Inter-Check ICI1000S Series unit will recognize it as a valid ALARM. The default value is set at 6 seconds.

4.11.3 Screen Link

Selection #3 allows you to program the ALARM INPUT TEXT to the video display. The ALARM INPUT TEXT is surrounded by asterisks when this selection is turned on. It captures your attention when an ALARM INPUT condition has occurred. Simply select on or off to display the text to the video screen.

4.11.4 Auxiliary Print Link

This selection allows you to program the auxiliary output to print the alarm text. Select either 1 to turn off the printer to the alarm text, or select 2 to turn the printer on.

4.11.5 Alarm Text

This last selection displays an associated descriptor to a specified ALARM INPUT. The Inter-Check ICI1000S Series allows you to program 12 characters including spaces. This text will be displayed on the screen if the SCREEN LINK is turned on and/or a printer if the AUXILIARY PRINT LINK is turned on. As mentioned earlier, the ALARM TEXT is surrounded by asterisks on the printer or video screen.

> **NOTE:** Each time you change any of the parameters just mentioned, the Inter-Check ICI1000S Series updates current settings automatically. The current settings can be viewed by entering the ALARM INPUT PROGRAM MENU.

Let's say you want your Inter-Check ICI1000S Series to activate an alarm condition when a cash register drawer has been open for 10 seconds. After this alarm has occurred, you want to print the text "REG. 1 OPEN" on the screen as well as print this text on a printer via the auxiliary port. You also wish to capture the action on VCR tape.

4.12 Alarm Programming

> **NOTE:** In the following examples, underlined text designates the correct selection.

1. Since you want to turn ALARM INPUT "on", select #1 under the ALARM INPUT PROGRAM MENU.

2. Select #2 to turn this ALARM INPUT "on"

    ALARM IN
    1=OFF 2=ON

3. Since you want to "send" the ALARM INPUT to the ALARM OUTPUT, you have to turn ALARM OUTPUT "on". This is done by selecting #2 at the next prompt:

    TRIGGER ALARM OUT
    1=OFF 2=ON

4. Programming a 10 second closure time is done by pressing #2 (ALARM TRIGGER DWELL) under the ALARM INPUT PROGRAM MENU.

    ALARM DWELL TIME IN SECONDS
    (000-255) =?10

    Press 10, the appropriate time period, then ENT to save.

5. Now link your ALARM INPUT to screen #1. Do this by selecting #3 (SCREEN LINK) under the ALARM INPUT PROGRAM MENU.

    SCREEN DISPLAY
    1=OFF 2=ON

6. Print the ALARM INPUT text via auxiliary port. Do this by selecting #4 (AUXILIARY PRINT LINK) in the ALARM INPUT PROGRAM MENU.

   AUX PRINT
   1=OFF 2=ON

7. The descriptor will describe the type of action that caused the alarm. To program the descriptor "REG. 1 OPEN", enter #5 (ALARM TEXT) in the ALARM INPUT PROGRAM MENU.

   ENTER DATA WANTED UP TO 12 CHARACTERS.
   (ESC) TO SKIP, (ENTER) TO ENTER,
   (BS) TO BACKSPACE
   ALARM IN
   REG.1 OPEN
   Press ENTER

8. The final display should look like this for ALARM 1 IN:

   ALARM IN DWELL : 10/ON/V1A1
   = =>REG. 1 OPEN

> **DESCRIPTION:** The alarm input is ON and is currently being "sent" to both the video and an auxiliary printer. Alarm occurs after a closure of 10 SECONDS with a descriptor displaying REG.1 OPEN.

Table 2 is used to identify the descriptors used throughout the Inter-Check ICI1000S Series menu system.

4.13 THE NV MEMORY WRITE PROTECT SWITCH

Your new Inter-Check ICI1000S Series incorporates a Non-Volatile (NV) type memory. This type of memory does not require a battery to operate. Refer to Figure 5 for the location of this switch and note the locked and unlocked positions. This switch must be positioned in the UNLOCKED position if you intend on programming the Inter-Check ICI1000S Series unit. If the switch is in the LOCKED position and you try to enter programming data, an "ERROR IN WRITING NV MEMORY !!!" warning will be displayed on the monitor screen. To allow programming, simply position the write protect switch to the UNLOCKED position. When programming is complete, position the switch to the LOCKED position. This will protect your programming from possible errors that may occur during AC power fluctuations or complete Inter-Check ICI1000S Series power loss.

Table 2. Label Descriptors	
Descriptor	Display
Data	D1
Video	V
Exception	E
Auxiliary 1	A1
Printer	PNTR
Exception Alarm	EALRM

Table 3. ICI1000S Series Pinouts		
Color	Pin #	Description
White	1	Program download input
Black	2	Signal ground
Red	3	RS232 current loop CHANNEL INPUT
Green	4	TTL printer output
Yellow	5	ICI1000PIM input
Blue	6	Alarm input

5.0 TROUBLESHOOTING

Symptom: System does not receive register data.

1. Power down the PIM, then repower it. If you receive a display on your monitor with a register model number, the unit is receiving data from the PIM.

2. Make sure the register model matches the number displayed on the monitor.

3. Make sure the switch settings on your PIM are correct for your model register.

4. Verify that the communication setup and protocol is accurate for your model register (non-PIM applications).

5. Check for proper wiring and hardware connections.

6. Refer to DEFAULT LOAD procedures in Section 4.10.8 of this manual.

7. Refer to PIM INSTALLATION procedures supplied with your ICI1000PIM or Appendix B of this manual.

Symptom: No text is displayed on the monitor.

1. Check camera and monitor connections.

2. Verify that the Inter-Check's power supply is connected.

3. Adjust potentiometers on bottom of the Inter-Check unit.

Symptom: Inter-Check unit displays strange character.

1. Check communication parameters and protocol.

2. Make sure baud rate is correct.

Symptom: Text vibrates on the monitor.

1. Adjust Vertical (V) on the bottom of the Inter-Check unit.

2. Adjust Gain (G) on the bottom of the Inter-Check unit.

Symptom: Red power indicator light on back of unit is not lit.

1. Make sure power supply is plugged in properly.

2. Make sure outlet is working properly.

3. Ensure power supply is good (measure 5 volt output).

4. Ensure that internal fuse is not blown.

Symptom: External serial printer not operating properly.

1. Ensure proper wiring to the Inter-Check unit.

2. Set printer parameters at 1200 baud, 8 bits, no parity.

Symptom: ERROR IN NV MEMORY message appears on the monitor.

1. NV MEMORY write protect switch on the bottom of the unit is in the locked position. Move to other setting. (Refer to Section 4.2 and Figure 5.)

Symptom: RECEIVE ERROR, PLEASE CHECK PARAMETERS is displayed on monitor.

1. Usually an indication of incorrect baud rate.

2. Also check protocol selection and communication parameters.

5.1 TROUBLESHOOTING FLOW CHART

Is the LED illuminated on the Intercheck unit? — **NO** → Check power at outlet. Check power at 120VAC/5VDC transformer. Check fuse inside Intercheck unit. (Looks like green resistor behind power plug.)

YES ↓

Is the cash register/device listed in the Product Specifications? — **NO** → Is it an ATM? — **YES** → Use ATM troubleshooting guide.

NO

YES ↓

Does it require an ICI1000PIM? — **NO** → Receiving data? — **NO** → Check continuity. Compare wiring with I/O manual. Is wiring correct? — **NO** → Correct the wiring

YES (Receiving data)

YES ↓ (Does it require)

Press 1. Is the protocol PIM Standard? Are the comm. parameters 9600 baud,8 bits, parity off, NRZ, ASCII, data invert?To clear press ESC. If ICI2000D, Press 2 & repeat. — **NO** → Execute a PIM default download.

YES (Check continuity) → Press 1. Check communication parameters and protocol using the interface cable I/O manual. If using ICI2000D, press 2 & repeat.

YES ↓

Power down, then power up the ICI1000PIM. Does a prompt appear? — **NO** → Does ICI1000PIM connect to the Intercheck unit using the data/phone cable only? — **NO** → Check yellow and black wires for continuity. Is wiring correct? — **NO** → Correct wiring. Repeat step.

YES ↓ (Power down)

Is the prompt correct? — **NO** → Reset dip switches on PIM. Verify switch settings with manual. Cycle power & repeat previous step.

YES (Does ICI1000PIM connect) ↓

Cut open jacket on phone data cable. Clip red & green wires. Cycle power on PIM. Does a prompt appear? — **NO** → Move switch #2 on bank #1 to opposite position. Cycle power. Does prompt appear? — **NO** →

YES (Check yellow) ↓

YES (Cut open jacket)

YES (Move switch #2) ↓

YES (Is the prompt correct) ↓

Data on screen from cash register/device? — **NO** → Move switch #1 on bank #1 to opposite position. Cycle power. Does data appear? — **NO** → Move switch # 3 on bank # 1 to opposite position. Change data protocol to PIM GRAPHICS. Cycle power to ICI1000PIM. Did data appear on monitor? — **NO** → Return equipment to Pelco for servicing.

YES ↓ (Data on screen)

YES (Move switch #1) →

YES (Move switch #3) ↓

Cash register has defective printer head. Intercheck will only work in graphics mode until register is repaired.

Problem solved.

6.0 SPECIFICATIONS

MODELS

ICI1000SI   Single register interface with internal keypad for programming; one (1) alarm output and thirty (30) programmable exceptions

ICI1000SE   Same as ICI1000SI except with external keypad for programming

ELECTRICAL

Input Voltage: 5 VDC ±3%

Power Supply:
  Input   120 VAC @ 15 watts, 60 Hz
  Output   5 VDC @ 1 amp

Fuse Protection: 1 amp

Video Inputs: One 75 ohm NTSC/PAL

Video Outputs: One 75 ohm NTSC/PAL

Alarm Outputs: One open collector output optically isolated to 3000V

Internal Composite
Synchronization:
  Standard
  NTSC   Vertical 60 Hz @ 260 µs
             Horizontal 15.36 KHz @ 4.38 µs

  or

  Optional PAL Vertical 50 Hz @ 260 µs
                Horizontal 15.36 KHz @ 4.38 µs

GENERAL

Ambient Operating
Temperature: 35° to 95°F (12.725° to 35°C)

Dimensions: 1.5"H x 4.75"W x 8.75"L
                (3.81 cm x 12.07 cm x 22.23 cm)

Weight: 2 lbs (.9 kg)

Construction: Steel, black enamel

Connectors:
  Video   2 BNC
  Alarm Out   One open collector output

Rating: NEMA 1

7.0 WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FT/FR8000 Series fiber optic products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:
1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

> Service Department
> Pelco
> 3500 Pelco Way
> Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

> Pelco
> 3500 Pelco Way
> Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

> Pelco c/o Expeditors
> 473 Eccles Avenue
> South San Francisco, CA 94080 USA
> Phone: 650-737-1700
> Fax: 650-737-0933

APPENDIX A. HEXADECIMAL, DECIMAL AND BINARY CONVERSION TABLES

HEX	Decimal	Binary	HEX	Decimal	Binary
0	0	00000000	32	50	00110010
1	1	00000001	33	51	00110011
2	2	00000010	34	52	00110100
3	3	00000011	35	53	00110101
4	4	00000100	36	54	00110110
5	5	00000101	37	55	00110111
6	6	00000110	38	56	00111000
7	7	00000111	39	57	00111001
8	8	00001000	3A	58	00111010
9	9	00001001	3B	59	00111011
A	10	00001010	3C	60	00111100
B	11	00001011	3D	61	00111101
C	12	00001100	3E	62	00111110
D	13	00001101	3F	63	00111111
E	14	00001110	40	64	01000000
F	15	00001111	41	65	01000001
10	16	00010000	42	66	01000010
11	17	00010001	43	67	01000011
12	18	00010010	44	68	01000100
13	19	00010011	45	69	01000101
14	20	00010100	46	70	01000110
15	21	00010101	47	71	01000111
16	22	00010110	48	72	01001000
17	23	00010111	49	73	01001001
18	24	00011000	4A	74	01001010
19	25	00011001	4B	75	01001011
1A	26	00011010	4C	76	01001100
1B	27	00011011	4D	77	01001101
1C	28	00011100	4E	78	01001110
1D	29	00011101	4F	79	01001111
1E	30	00011110	50	80	01010000
1F	31	00011111	51	81	01010001
20	32	00100000	52	82	01010010
21	33	00100001	53	83	01010011
22	34	00100010	54	84	01010100
23	35	00100011	55	85	01010101
24	36	00100100	56	86	01010110
25	37	00100101	57	87	01010111
26	38	00100110	58	88	01011000
27	39	00100111	59	89	01011001
28	40	00101000	5A	90	01011010
29	41	00101001	5B	91	01011011
2A	42	00101010	5C	92	01011100
2B	43	00101011	5D	93	01011101
2C	44	00101100	5E	94	01011110
2D	45	00101101	5F	95	01011111
2E	46	00101110	60	96	01100000
2F	47	00101111	61	97	01100001
30	48	00110000	62	98	01100010
31	49	00110001	63	99	01100011

HEX	Decimal	Binary	HEX	Decimal	Binary
64	100	01100100	96	150	10010110
65	101	01100101	97	151	10010111
66	102	01100110	98	152	10011000
67	103	01100111	99	153	10011001
68	104	01101000	9A	154	10011010
69	105	01101001	9B	155	10011011
6A	106	01101010	9C	156	10011100
6B	107	01101011	9D	157	10011101
6C	108	01101100	9E	158	10011110
6D	109	01101101	9F	159	10011111
6E	110	01101110	A0	160	10100000
6F	111	01101111	A1	161	10100001
70	112	01110000	A2	162	10100010
71	113	01110001	A3	163	10100011
72	114	01110010	A4	164	10100100
73	115	01110011	A5	165	10100101
74	116	01110100	A6	166	10100110
75	117	01110101	A7	167	10100111
76	118	01110110	A8	168	10101000
77	119	01110111	A9	169	10101001
78	120	01111000	AA	170	10101010
79	121	01111001	AB	171	10101011
7A	122	01111010	AC	172	10101100
7B	123	01111011	AD	173	10101101
7C	124	01111100	AE	174	10101110
7D	125	01111101	AF	175	10101111
7E	126	01111110	B0	176	10110000
7F	127	01111111	B1	177	10110001
80	128	10000000	B2	178	10110010
81	129	10000001	B3	179	10110011
82	130	10000010	B4	180	10110100
83	131	10000011	B5	181	10110101
84	132	10000100	B6	182	10110110
85	133	10000101	B7	183	10110111
86	134	10000110	B8	184	10111000
87	135	10000111	B9	185	10111001
88	136	10001000	BA	186	10111010
89	137	10001001	BB	187	10111011
8A	138	10001010	BC	188	10111100
8B	139	10001011	BD	189	10111101
8C	140	10001100	BE	190	10111110
8D	141	10001101	BF	191	10111111
8E	142	10001110	C0	192	11000000
8F	143	10001111	C1	193	11000001
90	144	10010000	C2	194	11000010
91	145	10010001	C3	195	11000011
92	146	10010010	C4	196	11000100
93	147	10010011	C5	197	11000101
94	148	10010100	C6	198	11000110
95	149	10010101	C7	199	11000111

HEX	Decimal	Binary	HEX	Decimal	Binary
C8	200	11001000	E7	231	11100111
C9	201	11001001	E8	232	11101000
CA	202	11001010	E9	233	11101001
CB	203	11001011	EA	234	11101010
CC	204	11001100	EB	235	11101011
CD	205	11001101	EC	236	11101100
CE	206	11001110	ED	237	11101101
CF	207	11001111	EE	238	11101110
D0	208	11010000	EF	239	11101111
D1	209	11010001	F0	240	11110000
D2	210	11010010	F1	241	11110001
D3	211	11010011	F2	242	11110010
D4	212	11010100	F3	243	11110011
D5	213	11010101	F4	244	11110100
D6	214	11010110	F5	245	11110101
D7	215	11010111	F6	246	11110110
D8	216	11011000	F7	247	11110111
D9	217	11011001	F8	248	11111000
DA	218	11011010	F9	249	11111001
DB	219	11011011	FA	250	11111010
DC	220	11011100	FB	251	11111011
DD	221	11011101	FC	252	11111100
DE	222	11011110	FD	253	11111101
DF	223	11011111	FE	254	11111110
E0	224	11100000	FF	255	11111111
E1	225	11100001			
E2	226	11100010			
E3	227	11100011			
E4	228	11100100			
E5	229	11100101			
E6	230	11100110			

APPENDIX B. ICI1000PIM SWITCH SETTINGS

Installation instructions for configuring the ICI1000PIM interface module are provided under separate cover in manual C1005M-D.

If for some reason this manual is not readily available, refer to the following section to configure the switch settings on the PIM interface module, if applicable to your installation.

DESCRIPTION

The following describes the DIP switch settings for banks #1 and #2 on the ICI1000PIM interface module (refer to Figure 9).

SWITCH BANK #1

The switches in this bank serve several different purposes. Some basic features include Polling or Non-polling selections, PIM addressing, clock signal manipulation and ICI1000PIM graphics mode select.

Switch 1 Selects either a non-inverting or inverted clock signal. The position of this switch will vary between registers. The switch setting varies depending on the cash register selected in the register decode list for SWITCH BANK 2.

Switch 2 Selects either Polling or Non-polling operation. Polling mode is used only with the ICI3000P unit (Party-line configuration) and is defined with a [–] switch setting. Non-polling mode should be selected when using Pelco's ICI2000D or ICI1000S series products (stand-alone configuration). This mode is defined with a [+] switch setting.

Switch 3 This is a dual function switch depending on the register type used. In dot matrix cash register applications, this switch selects either NORMAL [–] or PIM GRAPHICS [+] mode. Other applications will choose between either receipt or journal information for monitor display. Function of this switch are shown on the page 3. This switch is normally in the CLOSED [–] position.

Switches 4-8 These switches are used to set addresses of multiple PIM's in a Party-line system (ICI3000P unit). The address selected normally coincides with the actual cash register number. The appropriate switch settings for corresponding PIM addresses are shown below.

SWITCH # 45678	POLLING PIM ADDRESS (PIM #)
– – – –	1
– – – +	2
– – + –	3
– – + +	4
– + – –	5
– + – +	6
– + + –	7
– + + +	8
+ – – –	9
+ – – +	10
+ – + –	11
+ – + +	12
+ + – –	13
+ + – +	14
+ + + –	15
+ + + +	16
+ – – –	17
+ – – +	18
+ – + –	19
+ – + +	20
+ – + – –	21
+ – + – +	22
+ – + + –	23
+ – + + +	24
+ + – –	25
+ + – – +	26
+ + – + –	27
+ + – + +	28
+ + + – –	29
+ + + – +	30
+ + + + –	31
+ + + + +	32

NOTE:
[–] indicates an **UP** switch position
[+] indicates a **DOWN** switch position

In other words, a [–] means that you need to slide the switch towards the [–] position on the switch. Refer to the Figure 9 for a definition of [–] and [+] positions.

SWITCH BANK #2

This switch is dedicated to selecting which type of cash register the ICI1000PIM is interfacing with. The table below indicates the appropriate switch settings for a particular cash register. The first three settings indicate the appropriate settings for switches 1-3 on switch bank #1. A more detailed description of these three switches can be found at the beginning of this section.

+ = OPEN - FLIP THE SWITCH DOWN

– = CLOSED - FLIP THE SWITCH UP

X = POLLING/NON-POLLING
    [+] NON-POLLING
    [–] POLLING *(Refer to page 35.)*

R = RECEIPT
    [–] or JOURNAL
    [+] SELECT (Normally CLOSED [–])

G = GRAPHICS (Normally CLOSED [–])

> **IMPORTANT :** The information below applies to the ICI1000PIM versions 4.02 and greater only.

Register Type Selection	Bank #1 Switch # 1 2 3	Bank #2 Switch # 1 2 3 4 5 6 7 8
CASIO TK-2000 Dot Matrix Printer	+ X G	- - - + + + - -
CASIO TK4300 Dot Matrix Printer	+ X G	- - - + + + + -
CASIO TK1200/TK2600/TK4600/CE4115/CE4630 Dot Matrix Printer	+ X G	- - - + + - + +
CASIO TK2100/CE4530 Dot Matrix Printer	+ X G	- - - + + + - +
CASIO SA2000/2100 - Serial Printer	+ X -	- - - + + + + +
DATA CHECKER ALPHA 2/3 Printer, ICL MT20001 With Alpha 2/3 Printer	+ X R	+ - - + - - + -
DRESSER WAYNE Printer Serial	+ X R	+ - - - + + + -
ESPER 7100 Drum Printer	+ X -	+ - - + + - - -
ESPER 7540/7810 Dot Matrix Printer	+ X G	+ - - + + - - +
FUGITSU/ATRIUM Series with Bar 200 Printer	+ X R	+ - - + - - - -
GILBARCO TCR/G2 Parallel Printer	- X G	- - - - - - - -
HUGEN SWEDA - SWEDA 5436 Serial Printer	+ X -	+ - - - - + - -
IBM Model 1/2 Printer, IBM4683/4684 With Model 1 OR Model 2 Printer	+ X R	+ - - + - - + +
IBM Model 3&4 Printer, IBM4683/4684 IBM4693/4694 With Model 3 Printer	+ X R	+ - - + - + - -
ICL-200 PTR, ICL-STORE MASTER 9518-200	+ X R	+ - - + - - - -
ICL/DATA CHECKER MDL - 1600,1700,1800 Multidrop Connection	+ X -	+ - - + - - - +
ICL/DTS 2000/2100/2200 EPSON 220-AF Dot Matrix Printer	+ X G	- - + - - - - -
ICL/DTS 2000/2100/2200 EPSON 220-F Dot Matrix Printer	+ X G	- - + - - - - +
JCM GOLD 2200 Drum Printer	+ X -	+ - - + - + + -
NCR 2127 With V3 MULTIFINCITON Printer - Serial	+ X -	- - - + + - + -
NCR 2121 Printer - Serial	+ X +	- - - + + - - +
NCR 2113 Printer - Serial	+ X -	- - - + + - - -
NCR ANSWER Printer SINGLE NCR 1255/2140/2151/2152/2154/2157/2160/2552/2557 NCR 5300/SASI 1028/OLD STYLE Printer/MERIT REGISTER SYSTEMS	- X R	- - - + - + - -
NCR ANSWER Printer DUAL - NCR 2126	- X R	- - - + - + - +
NCR 7150-5001 Printer (7000 SERIES REG.)	+ X R	- - - + - + + -

Register Type Selection	Bank #1 Switch #			Bank #2 Switch #							
	1	2	3	1	2	3	4	5	6	7	8
NIXDORF	+	X	+	+	-	-	+	+	+	+	+
OMRON RS5550/RS5560 Dot Matrix Printer	-	X	G	-	-	+	-	-	+	-	
OMRON 4510, 4541 Dot Matrix Printer	-	X	-	-	-	+	-	-	+	+	
OMRON RS3410 Dot Matrix Printer	-	X	G	+	-	-	-	+	-	+	
OMRON 4041, 4043 Dot Matrix Printer	+	X	-	-	-	+	-	+	-	-	
PANASONIC JS-6500 Dot Matrix Printer	-	X	G	+	-	-	+	+	-	+	+
RCALLEN RC204 Drum Printer	+	X	-	+	-	-	+	-	+	+	+
SAMSUNG 4900, 4915, 4950 Dot Matrix Printer	-	X	G	-	-	+	-	-	+	+	-
SANYO ECR 580,690,720 EPSON 220F Dot Matrix Printer	+	X	G	+	-	-	+	+	-	+	-
SHARP A430 DP630 Dot Matrix Printer	-	X	G	-	-	+	-	-	+	-	+
SHARP 2381/2391 Drum Printer	+	X	+	-	-	-	-	-	-	+	-
SHARP 3230/3231/3240/3241/4230/4231 Dot Matrix Printer	-	X	G	-	-	-	-	-	+	-	+
SHARP 3100/3100S/3110/3250/3252/3300/3310/3311 Dot Matrix Printer	-	X	G	-	-	-	-	-	+	+	-
SHARP 4230, 4231 Dot Matrix Printer	-	X	G	+	-	+	-	-	-	-	-
SHARP 2595 Drum Printer	+	X	+	-	-	-	-	-	+	-	-
SHARP 2385/2386/2395/2396 Drum Printer	+	X	+	-	-	-	-	-	-	+	+
SHARP A550 Dot Matrix Printer	+	X	G	-	-	-	-	+	-	-	-
SHARP 3220 Dot Matrix Printer	-	X	G	-	-	-	-	+	+	+	
SHARP 2540/2590/2590S Drum Printer	+	X	+	-	-	-	-	-	-	-	+
SWEDA 2810/OMRON RS14-30 (USA Type) Drum Printer	+	X	+	+	-	-	-	-	-	-	-
SWEDA 2810/OMRON RS14-40 (USA Type) Drum Printer	+	X	+	+	-	-	-	-	-	-	+
SWEDA 2810/OMRON RS14-40 (European Type) Drum Printer	+	X	+	+	-	-	-	-	-	+	-
SWEDA 2820/OMRON XXXX-XX (USA Type) Drum Printer	+	X	+	+	-	-	-	-	-	+	+
SWEDA 2860	-	X	G	+	-	-	+	+	+	-	+
TEC 136/141/191/196 DISPLAY	-	X	+	-	-	-	-	+	-	-	+
TEC 206/216/227/230/290 DISPLAY	-	X	+	-	-	-	-	+	-	+	-
TEC 141 Printer Drum Printer	+	X	+	-	-	-	-	+	-	+	+
TEC 132/145 Drum Printer	+	X	-	+	-	-	+	-	+	-	+
TEC 2200/2300/2600 DPR-610/620 Dot Matrix Printer	+	X	G	-	-	-	-	+	+	-	-
TEC 2200/2300/2600 DPR-630 Dot Matrix Printer	+	X	G	-	-	-	-	+	+	-	+
TEC 2200/2300/2600 DPR-61A Dot Matrix Printer	+	X	G	-	-	-	-	+	+	+	-
TEC 1050/1060/1100/1190 DPR-710 Dot Matrix Printer	-	X	G	-	-	-	-	+	+	+	+
TEC 1050/1060/1100/1190 DPR-730 Dot Matrix Printer	-	X	G	-	-	-	+	-	-	-	-
TEC 1400/1600/1700/1900/FDS-30 DPR-370/374 Dot Matrix Printer	+	X	G	-	-	-	+	-	-	-	+
TEC 1400/1600/1700/1900/FSD-30 DPR-370S Dot Matrix Printer	+	X	G	-	-	-	+	-	-	+	-
TEC FT77 Printer - Serial Interface	+	X	-	-	-	-	+	-	-	+	+
TOKHEIM	-	X	R	+	-	-	+	+	+	-	-
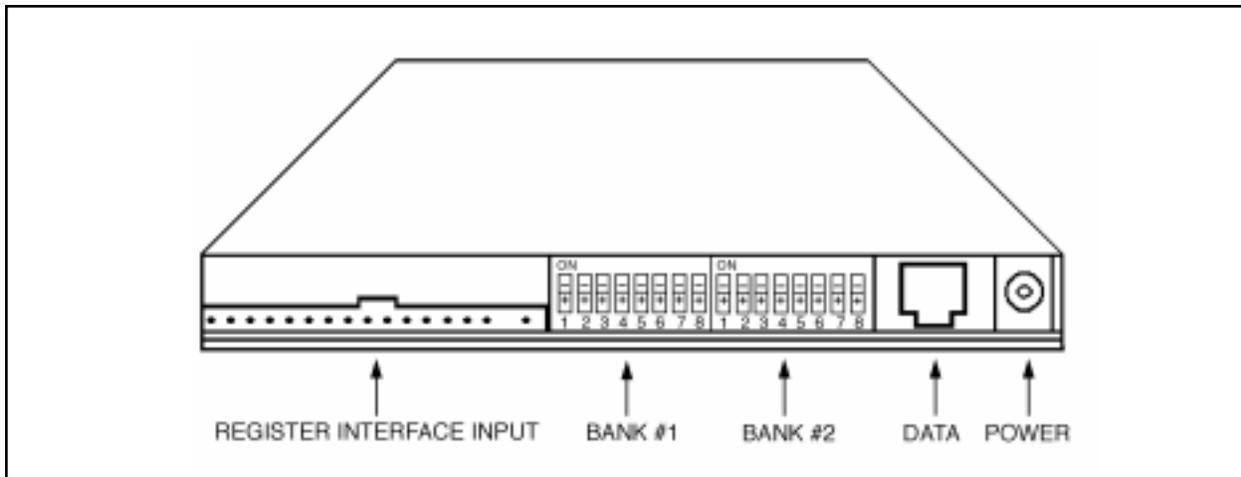
Figure 9. ICI1000PIM Switch Settings

ICI1000PIM INSTALLATION/ TROUBLESHOOTING GUIDELINES

Listed below are some simple troubleshooting steps at your disposal. Following these steps will ensure that your Inter-Check P.O.S. unit is communicating correctly with your ICI1000PIM module.

1. Always execute a PIM DEFAULT LOAD (DL) on your Inter-Check unit. Pelco suggests the use of the Default Load even if your installation does not require a PIM module. The Default Load sets all Inter-Check communication parameters to the specific values needed to communicate with your ICI1000PIM module.

2. Select cash register options using the switch banks on your PIM. Refer to previous pages for more information.

3. Utilizing the wiring kit, perform a bench test by connecting the PIM to the Inter-Check unit and then power up the PIM. Upon power-up, you should see a prompt scroll across the monitor which matches your register type. A PIM version number will also be displayed. If this prompt appears on the monitor, the Inter-Check unit and PIM are communicating properly.

   Now, install the wiring kit and connect the PIM according to the proper wiring shown in Figure 2 and power up the PIM again. If the wiring is correct, you should see the prompt explained in step #3.

NOTE: In rare instances when connecting a PIM *directly* to an ICI1000S unit is desired (without the use of a wiring kit), the data cable will need to be modified.

To modify the cable:
a. Slit the gray insulation jacket of the data cable and expose the internal wires.

b. Cut the red and green wires and remove a small section of each to prevent against accidental contact.

4. Install the PIM into the cash register. Refer to the installation instructions included with your particular cash register interface.

5. Power-up PIM and look for prompt again.

6. Power-up cash register and test for proper operation.

Pelco
3500 Pelco Way, Clovis, CA 93612-5699 (209) 292-1981 • (800) 289-9100
FAX (800) 289-9150 or (209) 292-3827

(Product specifications subject to change without notice.)

C1000M-B